Integrated Range Planning

A Process Management Improvement Model (PMIM) Approach

Howard Bullard
Chief, Range Division
Fort Stewart, GA

Rock of the Marne

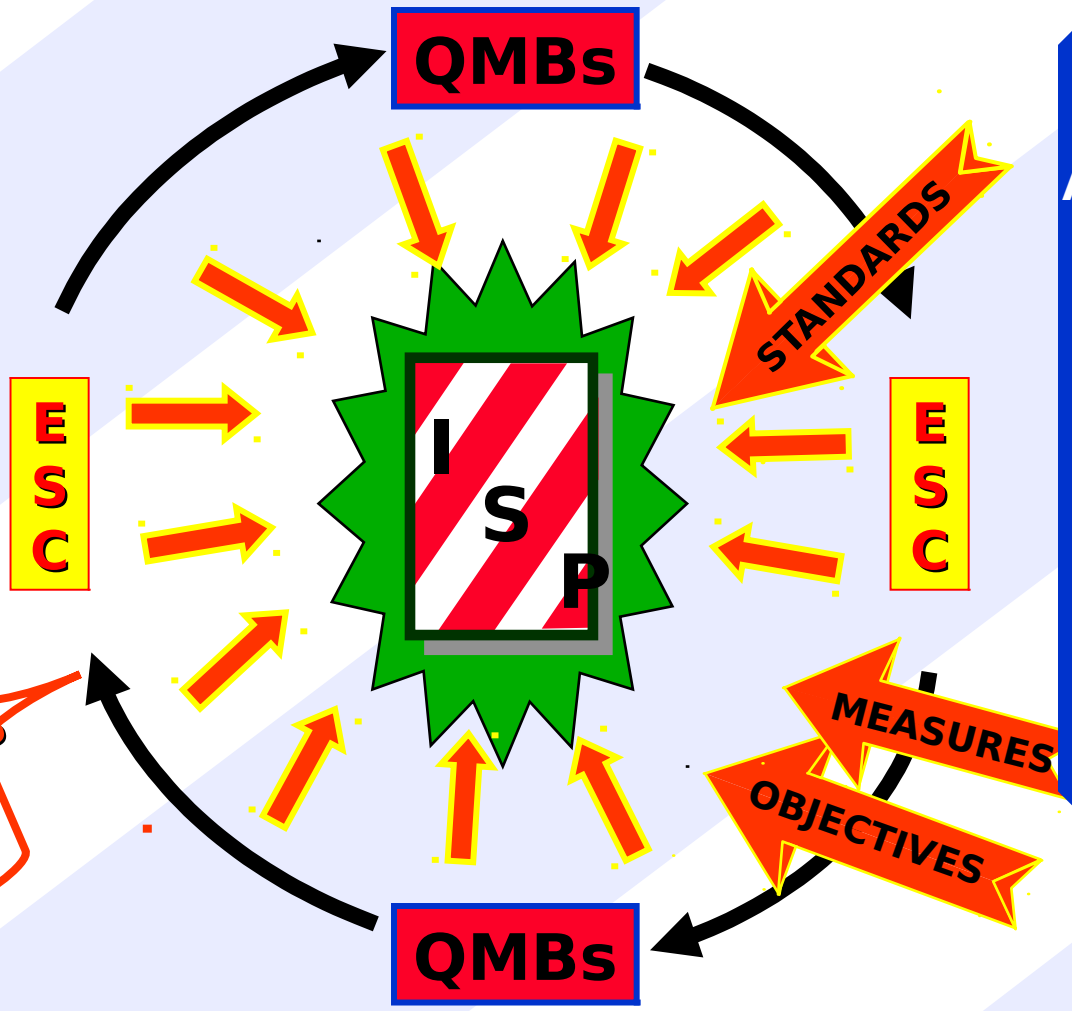
INSTALLATION STRATEGIC PLANNING

"WE DO IT RIGHT"

ESC

CG
ADC-S
ADC-M
COFS
GC
GC (H)
MSCs
CSMs

- MISSION
- VISION
- KEY BUSINESS DRIVERS
- SUPPORT



QMBS

POWER PROJECTION AND READINESS
ADC-S
(1ST BDE CDR)
DOR

TRAINING SUPPORT
ADC-M
(2D BDE CDR)
DOT

WELL BEING
GC
(DIVARTY CDR)
DCAS

TRAINING SUPPORT

- **LIVE FIRE RANGES**
- **MANEUVER/TRAINING AREAS**
- **SIMULATIONS/SIMULATORS/TNG AIDS**
- **TRAINING SUPPORT BLDGS/TNG AIDS**

GOALS

- **STATE OF THE ART RANGES**
- **WESTERN MANEUVER AREA CAPABLE OF TRAINING BN TASK FORCE TO STANDARD**
- **TOP OF THE LINE SIMULATIONS IN MODERN, EFFICIENT FACILITIES**
- **SUFFICIENT AND MODERN TRAINING FACILITIES AND TRAINING AIDS**

MILESTONES

- FY00 CONSTRUCT MOUT & SFOR TNG FACILITIES
- FY00 RANGE TRAINING LAND PROGRAM (RTLP)
- FY00-02 LOW WATER CROSSINGS - MANEUVER AREA
- FY00 CONSTRUCT MPTR (MCA)
- FY01 IMPROVE AERIAL GUNNERY RANGES
- FY01 UPGRADE SIMULATION CENTER
- FY01 COMPLETE MPMG RANGE
- FY00-04 FIELD DISTANCE LEARNING
- FY05 DIGITAL MPRC
- FY05 CONSTRUCT SIMULATION CENTER

Range and Training Land Program (RTLP)

STRATEGY

FIX IMMEDIATE SHORTFALLS IDENTIFIED BY CUSTOMER FEEDBACK AND FORCE MODERNIZATION. GAIN COMMAND SUPPORT, USE ALL AVAILABLE FUNDING AND CONSTRUCTION RESOURCES TO ENERGIZE THE PROCESS.

RANGE PROJECT MANAGEMENT PROCESS

TRAINING FACILITY IMPROVEMENT IS AN ON-GOING PROCESS.

PROJECTS ARE MANAGED THOUGH THE TRAINING SUPPORT QUALITY MANAGEMENT BOARD (TSQMB) AND EXECUTIVE STEERING COMMITTEE (ESC) PROCESS BOARD MEETS QUARTERLY. RESULTS FROM THE TSQMB AND ESC ARE INTEGRATED INTO OTHER INSTALLATION PROGRAMS ESTABLISHEDTO MANAGE CONSTRUCTION.

RANGE PROJECT MANAGEMENT PROCESS (cont.)

PROJECT IDENTIFICATION

- Customer In-put
- Fielding of new weapons systems
- Changes in training doctrine
- Upgrade to support new devices
- Environmental Issues

RANGE DIVISION

- Confirm requirement
- Verify safety, suitable location, determine initial environmental and resource impact
- Prepare recommendation for TSQMB review
- Once a project is validated, serve as technical POC through all phases of construction
- Prepare work order & submit to DPW

RANGE DIVISION

RANGE PROJECT MANAGEMENT PROCESS (cont.)

TRAINING SUPPORT QUALITY MANAGEMENT BOARD (TSQMB). CHAIRMAN ASSISTANT DIVISION COMMANDER FOR MANEUVER WITH BRIGADE AND SEPARATE BATTALION COMMANDERS SERVING AS VOTING MEMBERS.

- **Board members review and validate project**
- **Establish project priority**
- **Approve self-help and funded projects**
- **Forward major projects to Executive Steering Committee (ESC) for approval**

RANGE DIVISION

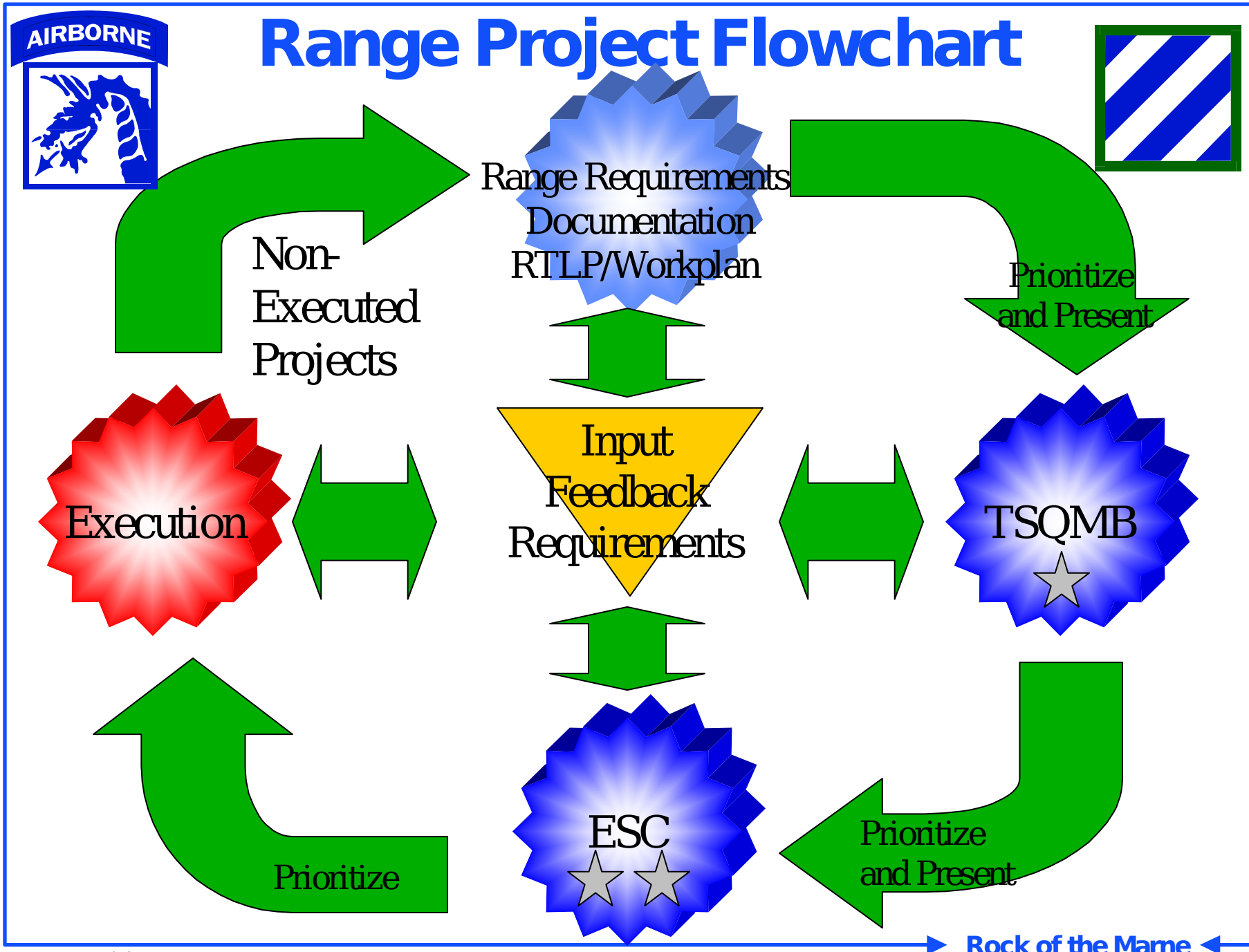
RANGE PROJECT MANAGEMENT PROCESS (cont.)

EXECUTIVE STEERING COMMITTEE (ESC). CHAIRED BY THE COMMANDING GENERAL WITH ASSISTANT DIVISION COMMANDERS, CHIEF OF STAFF, AND GARRISON COMMANDER SERVING AS VOTING MEMBERS

- Approve as valid project
- Identify Installation priority and funding source
- Integrate into the installation funding plan

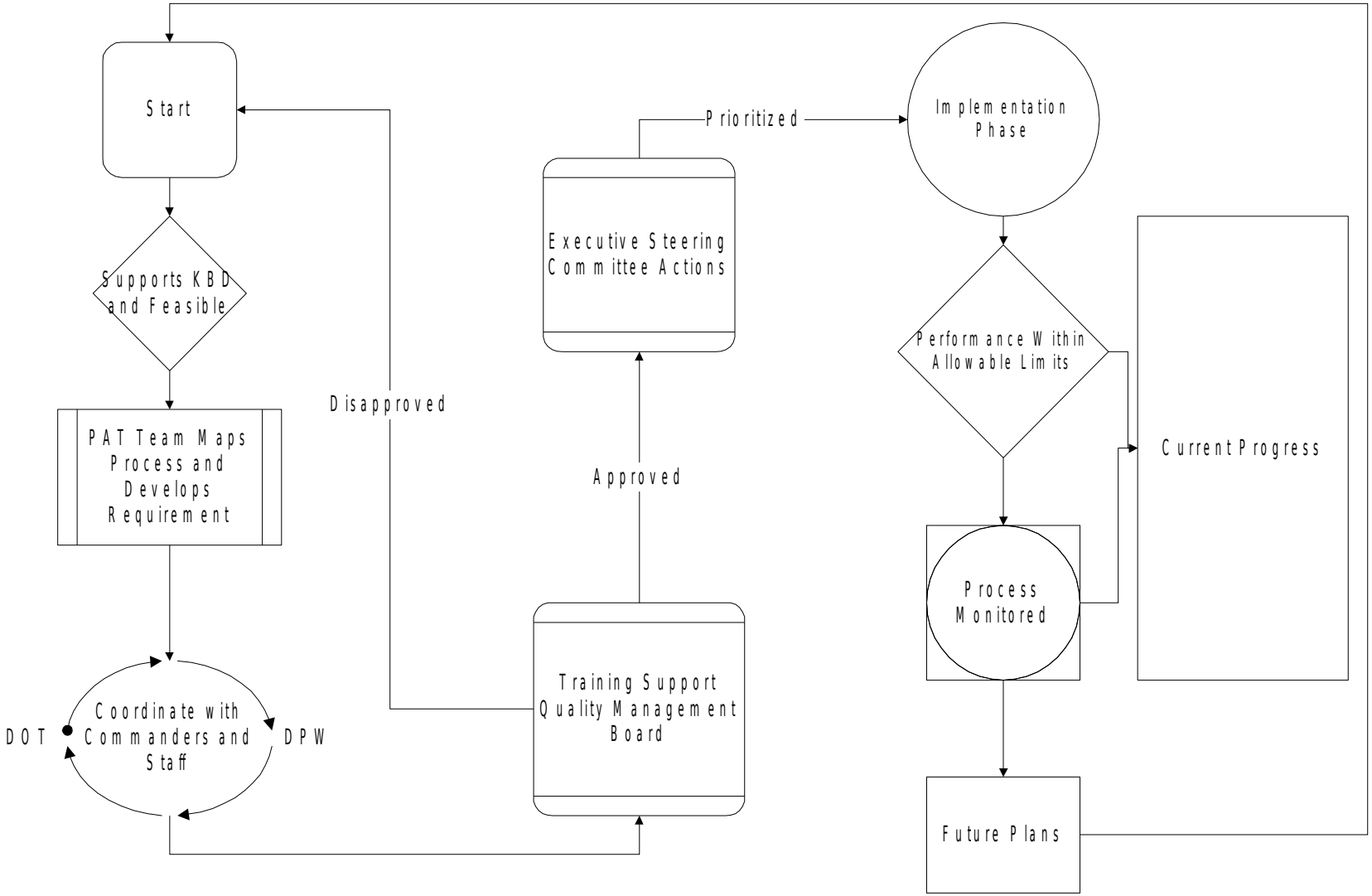
GARRISON STAFF AGENCIES COMPLETE STAFF ACTION REQUIRED TO TO EXECUTE DESIGNATED PROJECTS.

Range Project Flowchart



Planning and Execution

Process Management Improvement Model (PMIM)

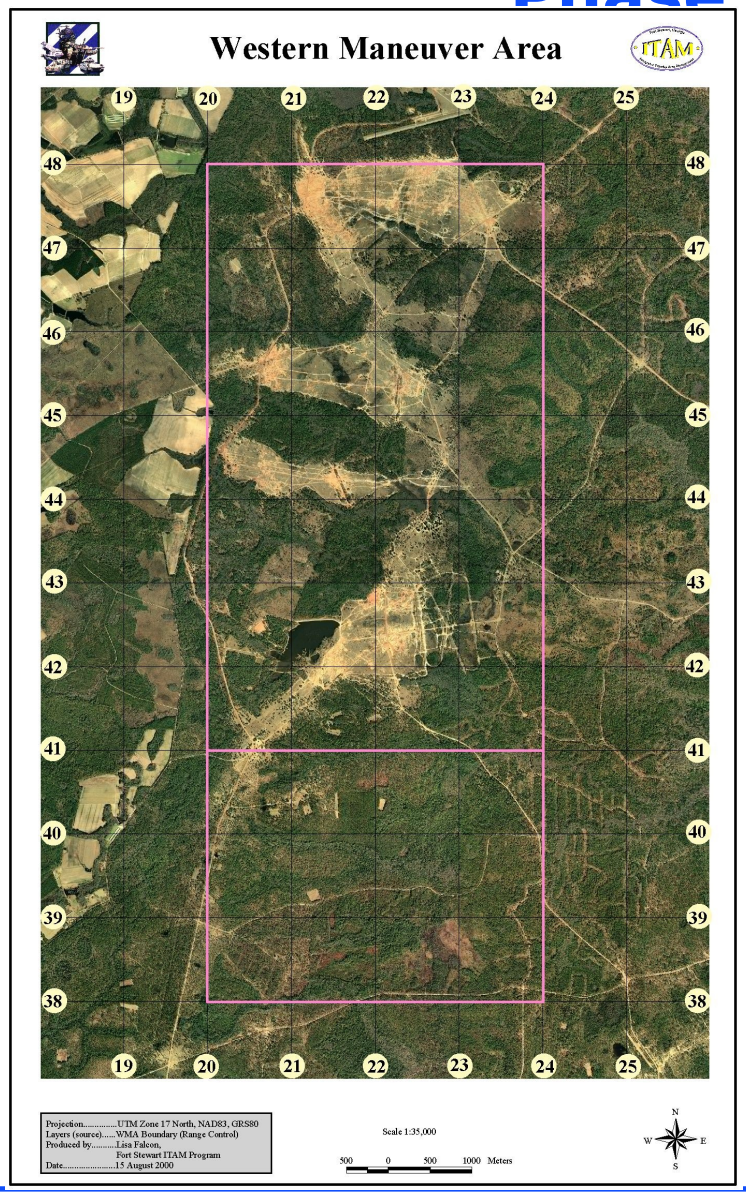


Western Maneuver Area Program (WMAP)

- Multi-Year
- Multi-Sourced
- Multi-Phased
  - **Phase I (Being Constructed)**
  - **Phase II (Sited and Designed)**
  - **Phase III (To Be Sited)**
- Multi-Faceted
  - **DOT**
  - **DPW (ENRD/F&W/Forestry)**
  - **DOC**
  - **USDA/NRCS**
  - **Command Group**

A PROGRAM DESIGNED TO IMPROVE THE ECHO AND FOXTROT TRAINING AREAS TO DEVELOP A SUSTAINABLE ENVIRONMENT WHICH CAN SUPPORT REALISTIC TRAINING

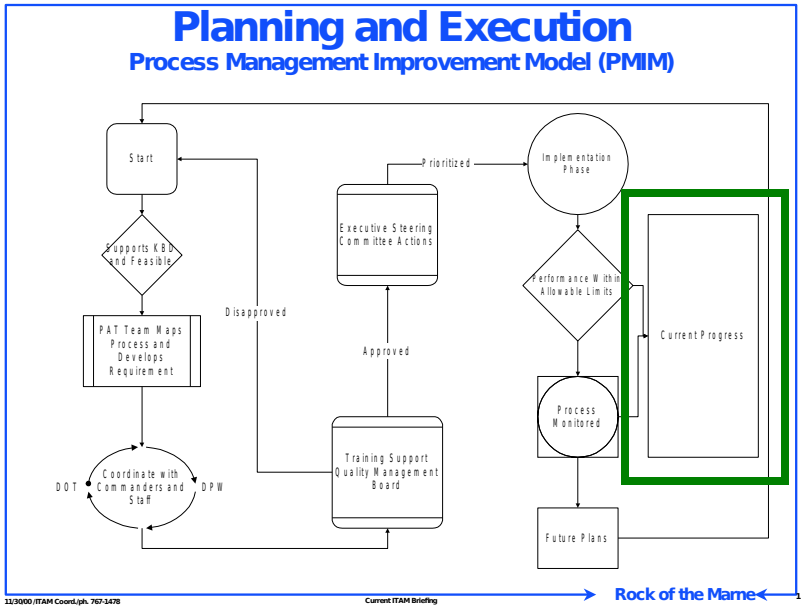
Western Maneuver Area Program (WMAP)
Phase I- Base Map



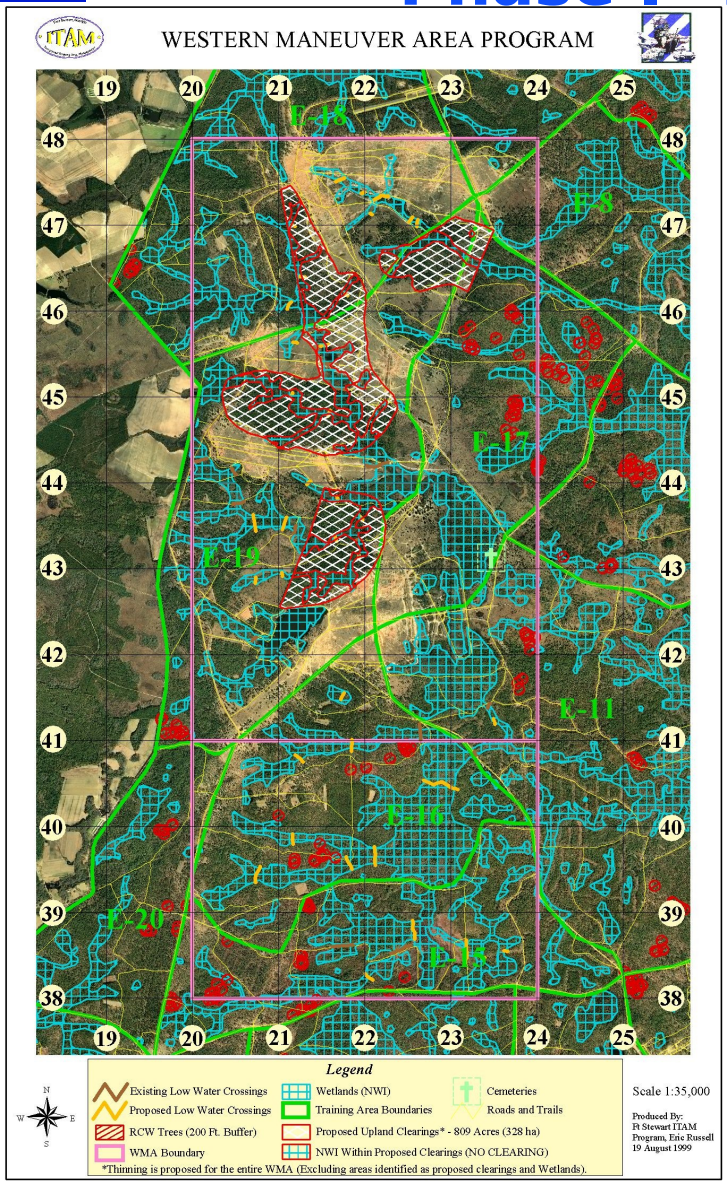
- Existing Maneuver Areas 1KM X 3KM orienting East-West
- Old Tank Ranges
- Separated by Wetlands of limited trafficability
- Many Challenges: Trafficability and Visibility

Case Study
Western Maneuver Area Program (WMA

- **Identified Requirement: Increase Battalion Task Force Maneuver Capability**
- **PAT Team Formed**
  - Directorate of Training/ Range Division /Integrated Training Area Management Program
  - Natural Resources Conservation Services, United States Department of Agriculture
  - Directorate of Contracting
  - Environmental Natural Resource Division
    - » Fish and Wildlife Branch
    - » Forestry Branch
    - » Wetlands
    - » Cultural Resources
- **Supporting documents**
  - Requirements Contract
  - EA E & F Training Area Improvements (Clear-Cutting and Low Water Crossings)

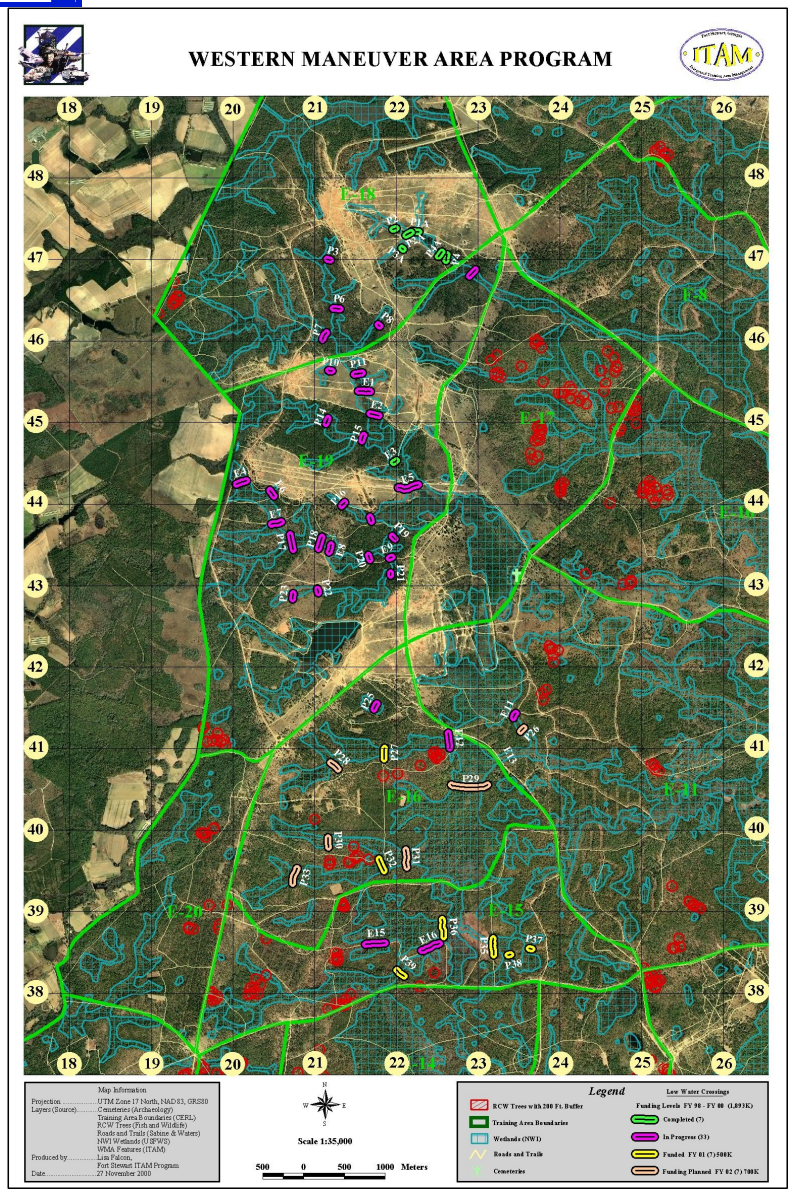


Western Maneuver Area Program (WMAP) Phase I- Timber Clearing



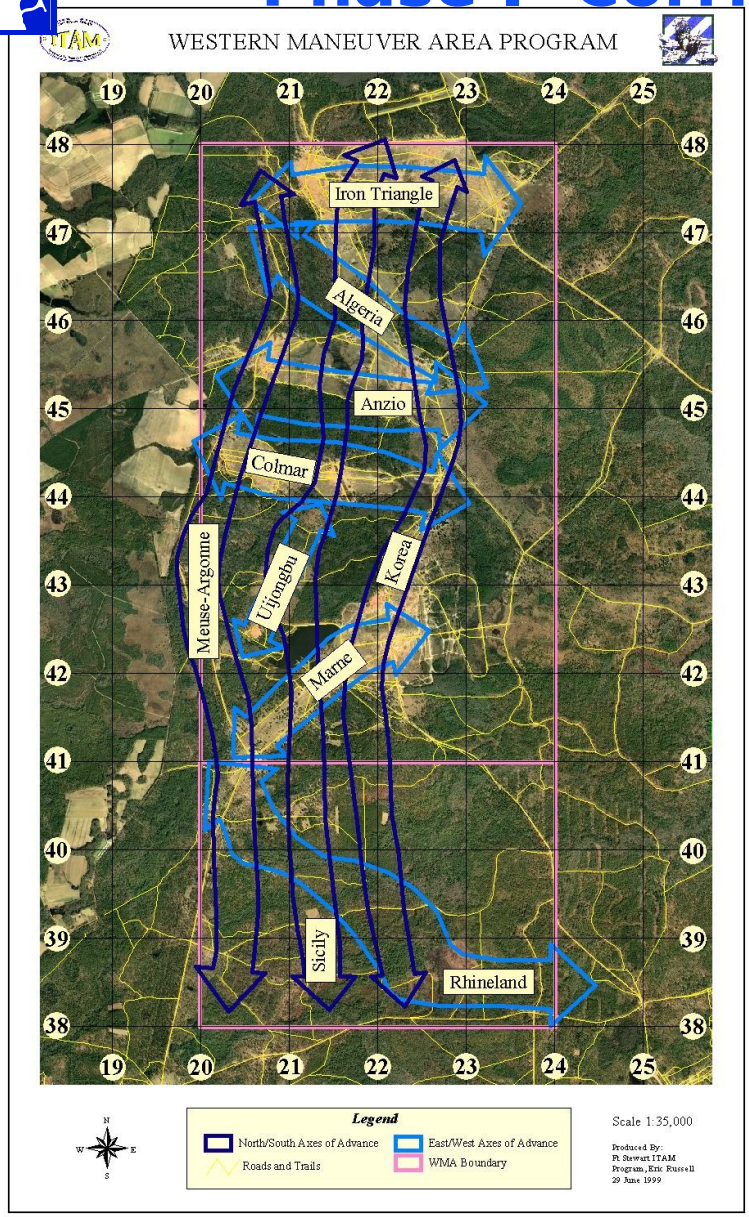
- Covered Under the EA
- Removal of Merchantable Timber From Approx 809 Acres
- Thinning to 50 sq. ft. Basal Area per Acre (BAA) of over 1500 Acres
- No Clear Cutting of Wetlands
- Erosion and Sediment Control Measures to be emplaced

Western Maneuver Area Program (WMAP) Phase I- Low Water Crossings



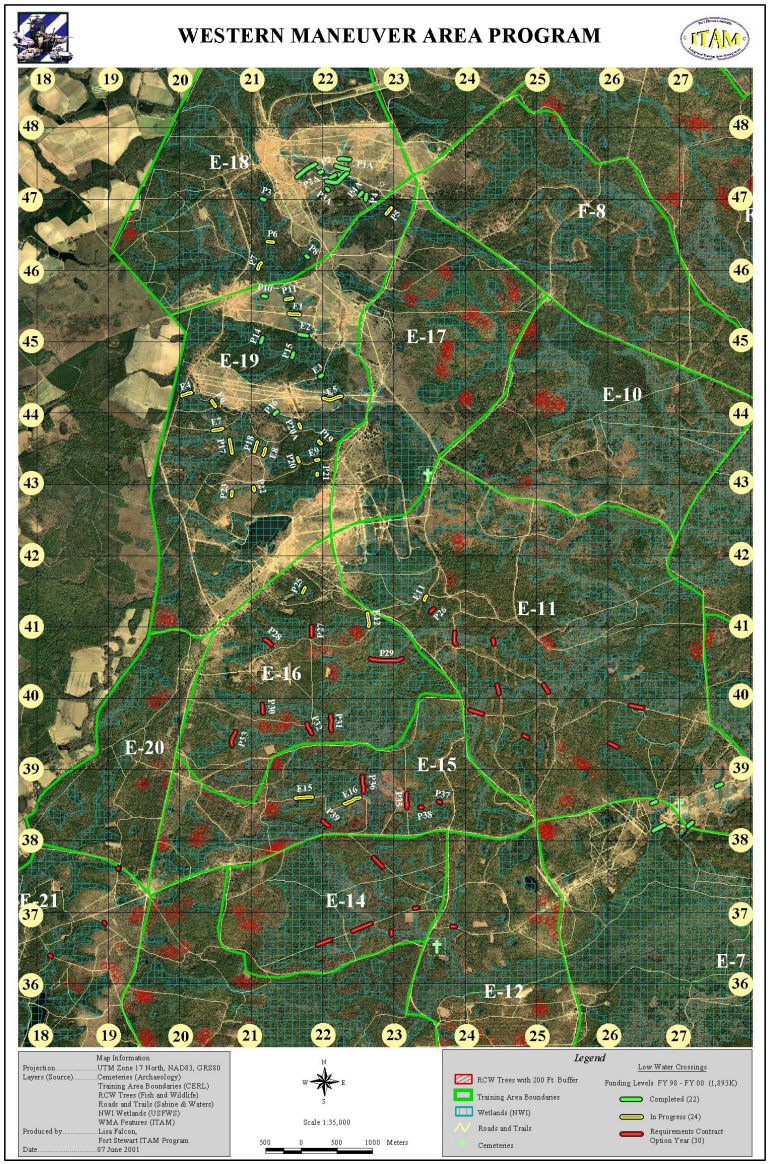
- 54 Low Water Crossings
- **Green**— 7-Have Competed to Date
- **Purple**—33-Under Construction
- **Yellow**—7-To Be Funded FY-01(Partial Phase II)
- **Beige** — 7- To Be Funded FY-02 or FY 01 SAF (Partial Phase II)
- Funded by ITAM, OMA, and Year-end UFRs

Western Maneuver Area Program (WMAP) Phase I- Corridors With Names



- Three Main North-South Corridors
- Three East-West Corridors
- Three Transitional Corridors
- One Exit Corridor To Training Area Vic Bethel Cemetery

Western Maneuver Area Program (WMAP) Phase II- Base Map

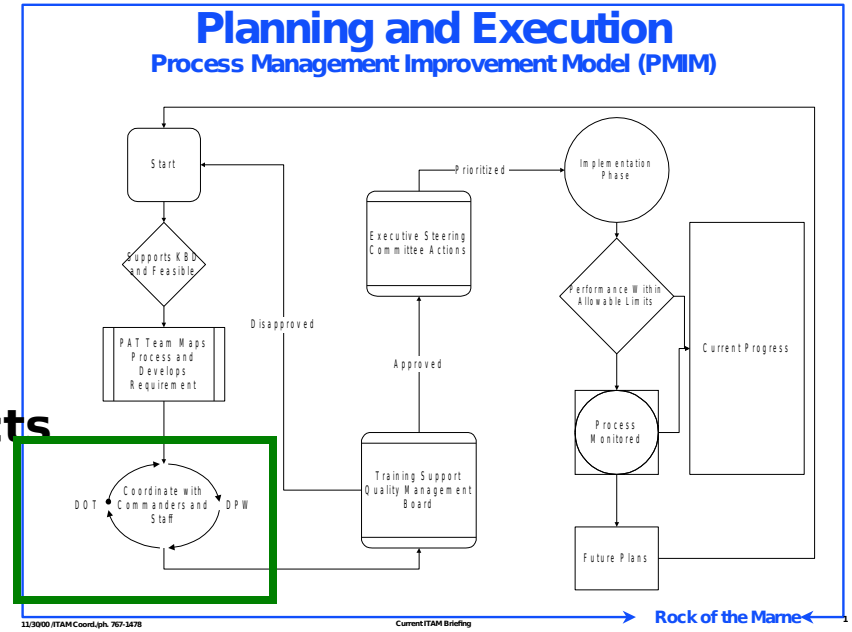


- Linking Phase I LWCings with Bethel LWCings to increase improved maneuver area to 57 KM^2

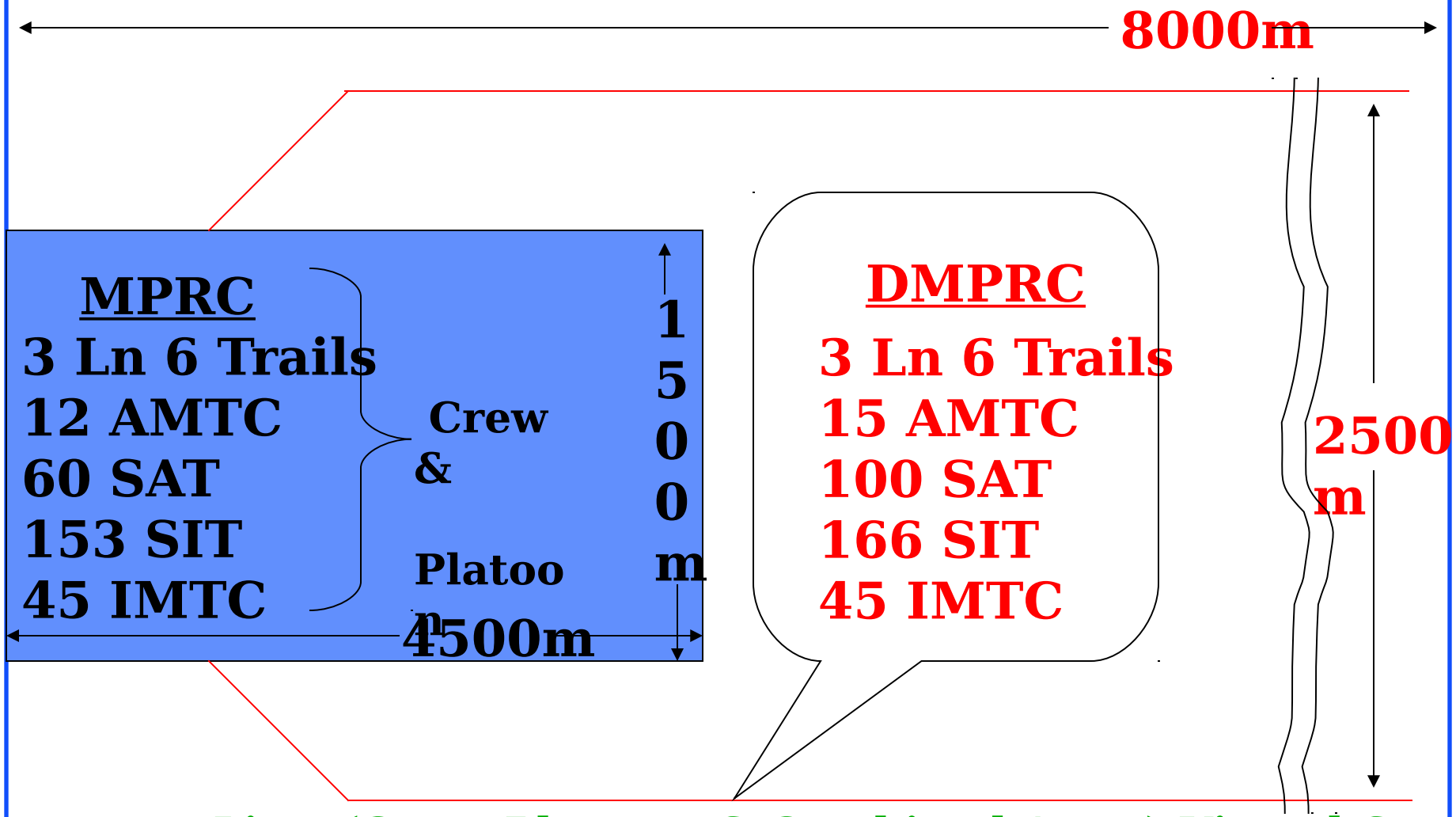
Case Study

gital Multipurpose Range Complex DMP

- **Identified Requirement: Digital Multipurpose Range Complex (DMPRC) - FY06**
- **Joint Working Group Formed**
  - Directorate of Training/ Range Division /Integrated Training Area Management Program
  - U. S. Army Corps of Engineers
  - Environmental Natural Resource Division
    - » Fish and Wildlife Branch
    - » Forestry Branch
    - » Wetlands
    - » Cultural Resources
  - Division Staff
  - FORSCOM Staff
- **Six Options to minimize Impacts**

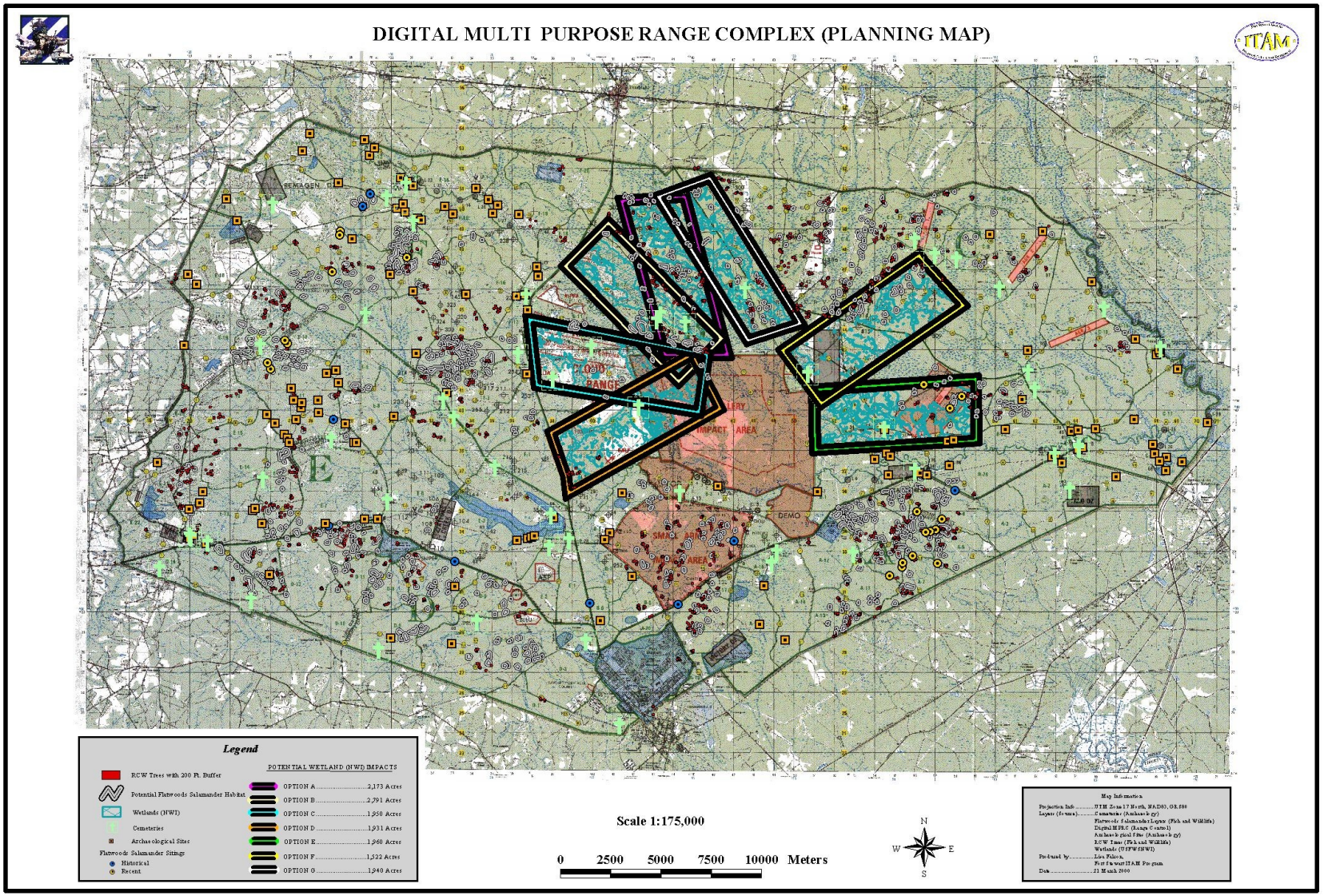


MPRC & DMPRC

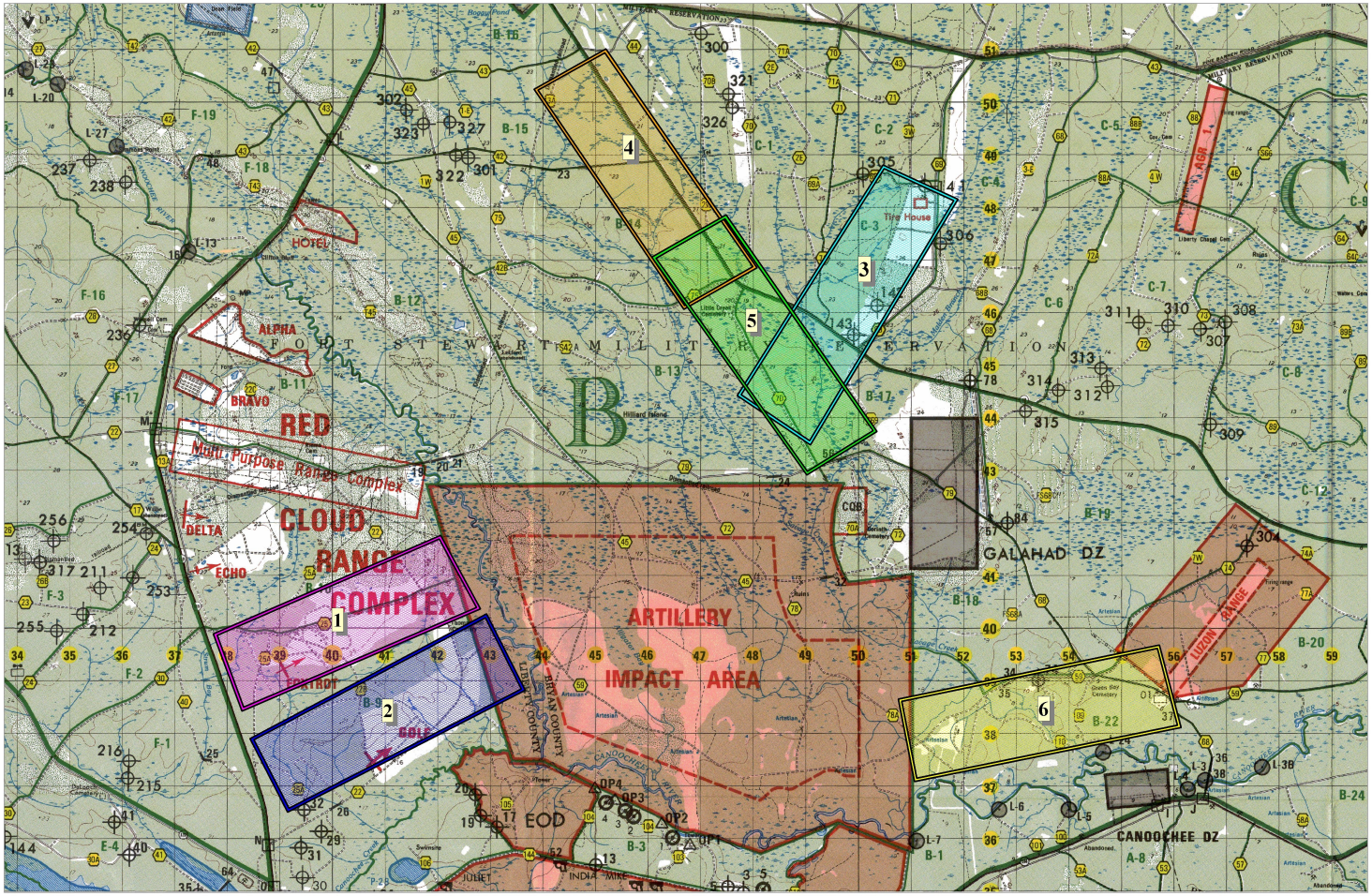


Live, (Crew, Platoon, & Combined Arms) Virtual & Constructive

Domains


DIGITAL MULTI PURPOSE RANGE COMPLEX (PLANNING MAP)
ITAM
Legend
RCW Trees with 200 Ft. Buffer
Potential Flatwoods Salamander Habitat
Wetlands (NWI)
Cemeteries
Archaeological Sites
Flatwoods Salamander Sitings
Historical
Recent
POTENTIAL WETLAND (NWI) IMPACTS
OPTION A ..... 2,173 Acres
OPTION B ..... 2,791 Acres
OPTION C ..... 1,950 Acres
OPTION D ..... 1,931 Acres
OPTION E ..... 1,960 Acres
OPTION F ..... 1,522 Acres
OPTION G ..... 1,940 Acres
Scale 1:175,000
0 2500 5000 7500 10000 Meters
N
W
E
S
Map Information
Projection Info ..... UTM Zone 17 North, NAD83, GRS80
Layers (features) ..... Cemeteries (Archaeology)
Flatwoods Salamander Layers (Fish and Wildlife)
Digital MPRC (Range Control)
Archaeological Sites (Archaeology)
RCW Trees (Fish and Wildlife)
Wetlands (USFWS/NWI)
Produced by ..... Lisa Fabick,
Fort Stewart ITAM Program
Date ..... 21 March 2000

Proposed DMPRC Locations

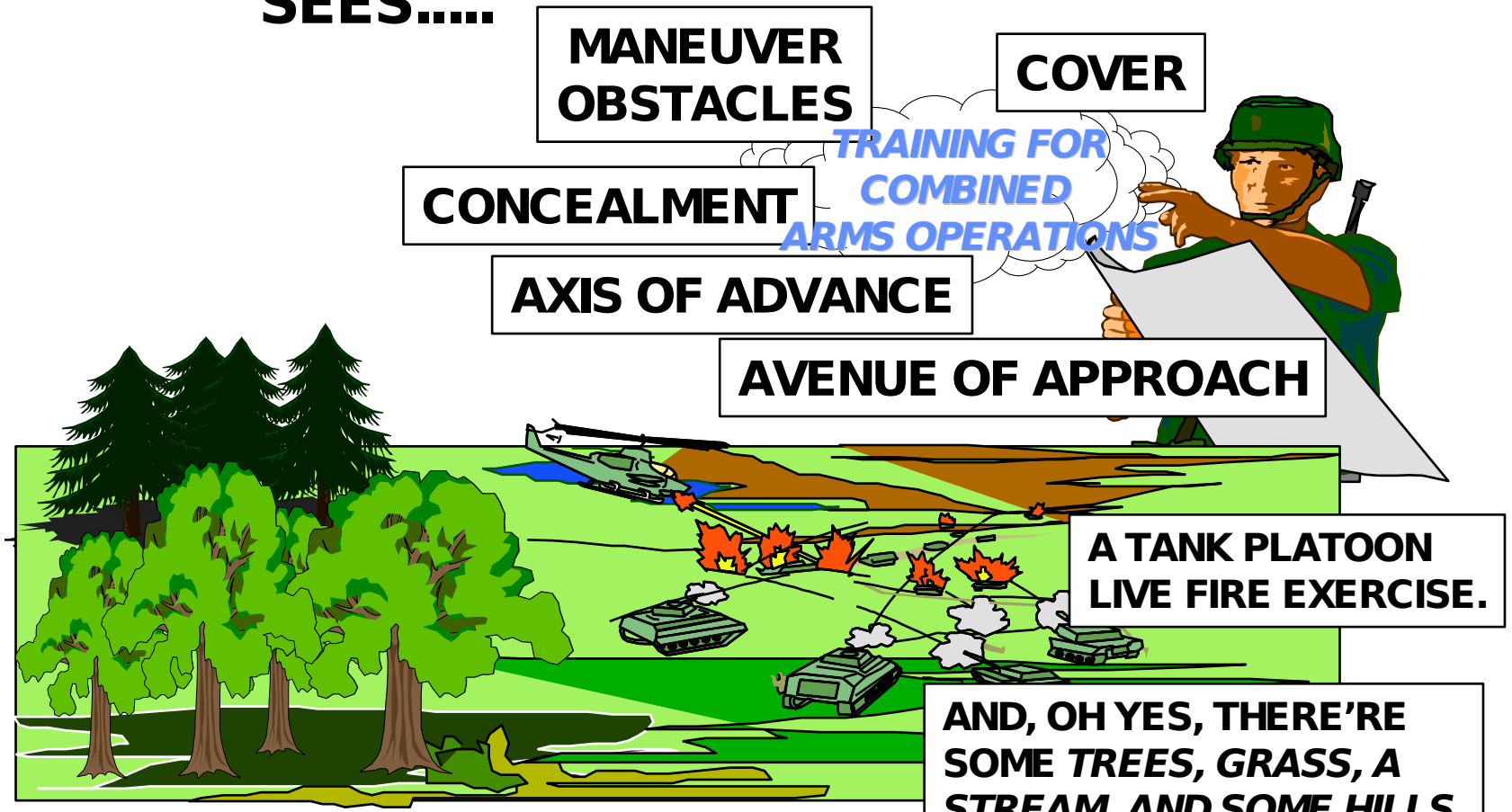


Approved COA is split option DMPRC range consisting of SITES 1 & 2

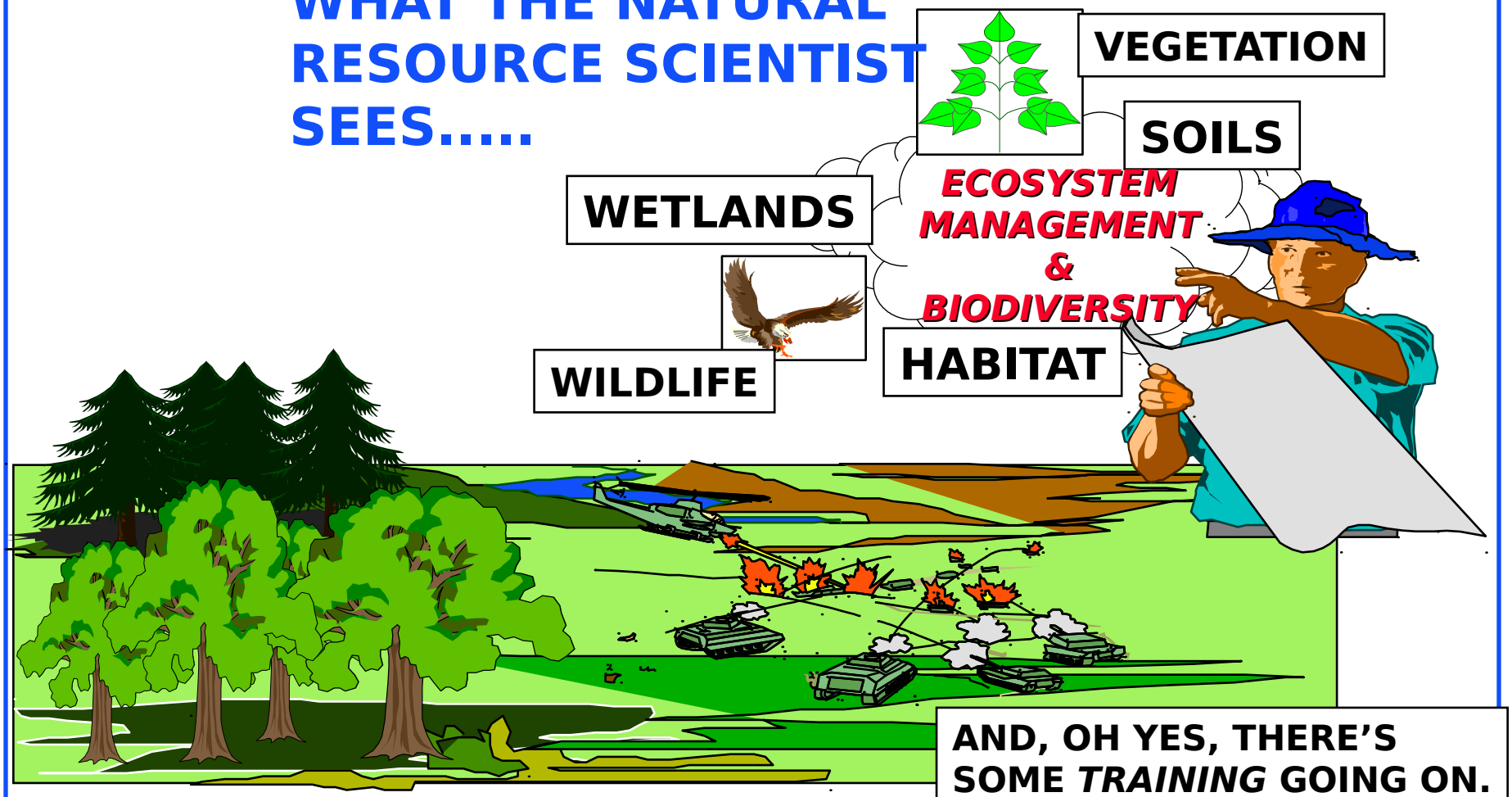
Environmental and Training Staff Integration

- **Frequent interface**
- **Joint Working Groups for projects**
- **Comments on Printed Documents**
  - RTLP
  - Integrated Natural Resources Management Plan (INRMP)/Endangered Species Management Plan (ESMP)
  - National Environmental Policy Act (NEPA) Documentation Concerning Projects For Training
  - TES studies and documentation
  - Environmental Awareness Products and Briefings
  - Environmental Compliance Officer Classes
  - Command and Staff Briefings
  - Company Commanders and First Sergeants Course

WHAT THE TRAINER SEES.....


MANEUVER OBSTACLES
COVER
TRAINING FOR COMBINED ARMS OPERATIONS
CONCEALMENT
AXIS OF ADVANCE
AVENUE OF APPROACH
A TANK PLATOON LIVE FIRE EXERCISE.
AND, OH YES, THERE'RE SOME *TREES, GRASS, A STREAM AND SOME HILLS*.

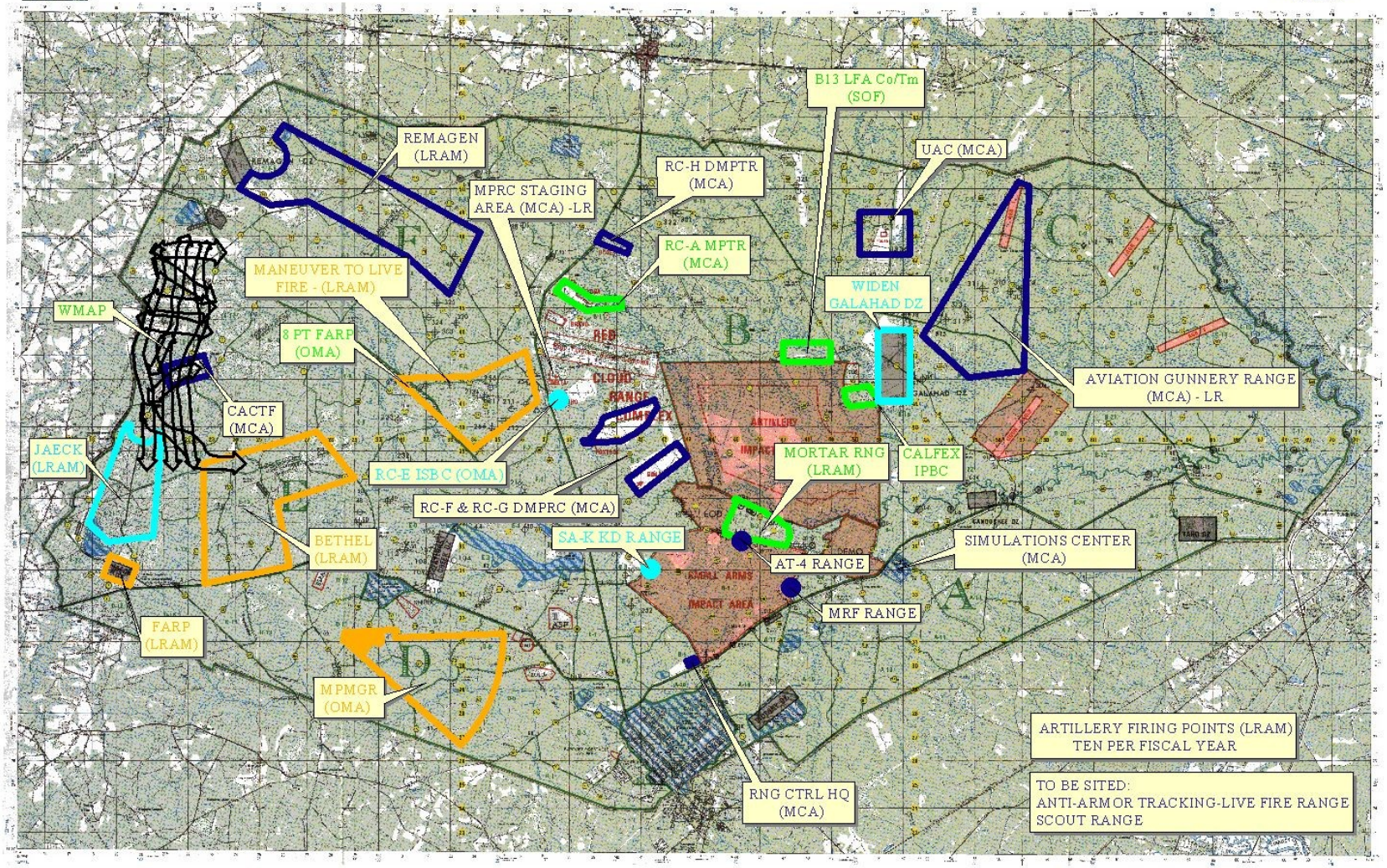
WHAT THE NATURAL RESOURCE SCIENTIST SEES.....



Meeting the Challenges

- FORESTRY
  - **Thin uplands to 50sq Ft. BAA (Henry Guidelines)**
  - **Burning**
  - **Selective clear-cutting**
- TES
  - **Meet Henry Guidelines which are Optimum RCW Habitat.**
  - **Protect Habitat**
  - **Monitor progress towards established goals**
- WETLANDS
  - **Create LWCings**
  - **Wetland Bank**
- Historic/Cultural Areas
  - **Identify-Mark-Protect**
- Range Division/ITAM
  - **Regulations**
  - **Operate within all guidelines**
  - **Environmental Awareness & Seibert Stakes**

FORT STEWART TEN YEAR RANGE PLAN



Map Information	
Projection	UTM Zone 17 North, NAD 83, GRS80
Layers (Source)	Ranges (Range Control)
Produced by	Lisa Falcon, Fort Stewart ITAM Program
Date	28 May 2001

Legend
- UNDER CONSTRUCTION
- FY - 01
- FY - 02
- LONG RANGE (03+)

Scale 1:230,000

3000 0 3000 6000 9000 Meters

N

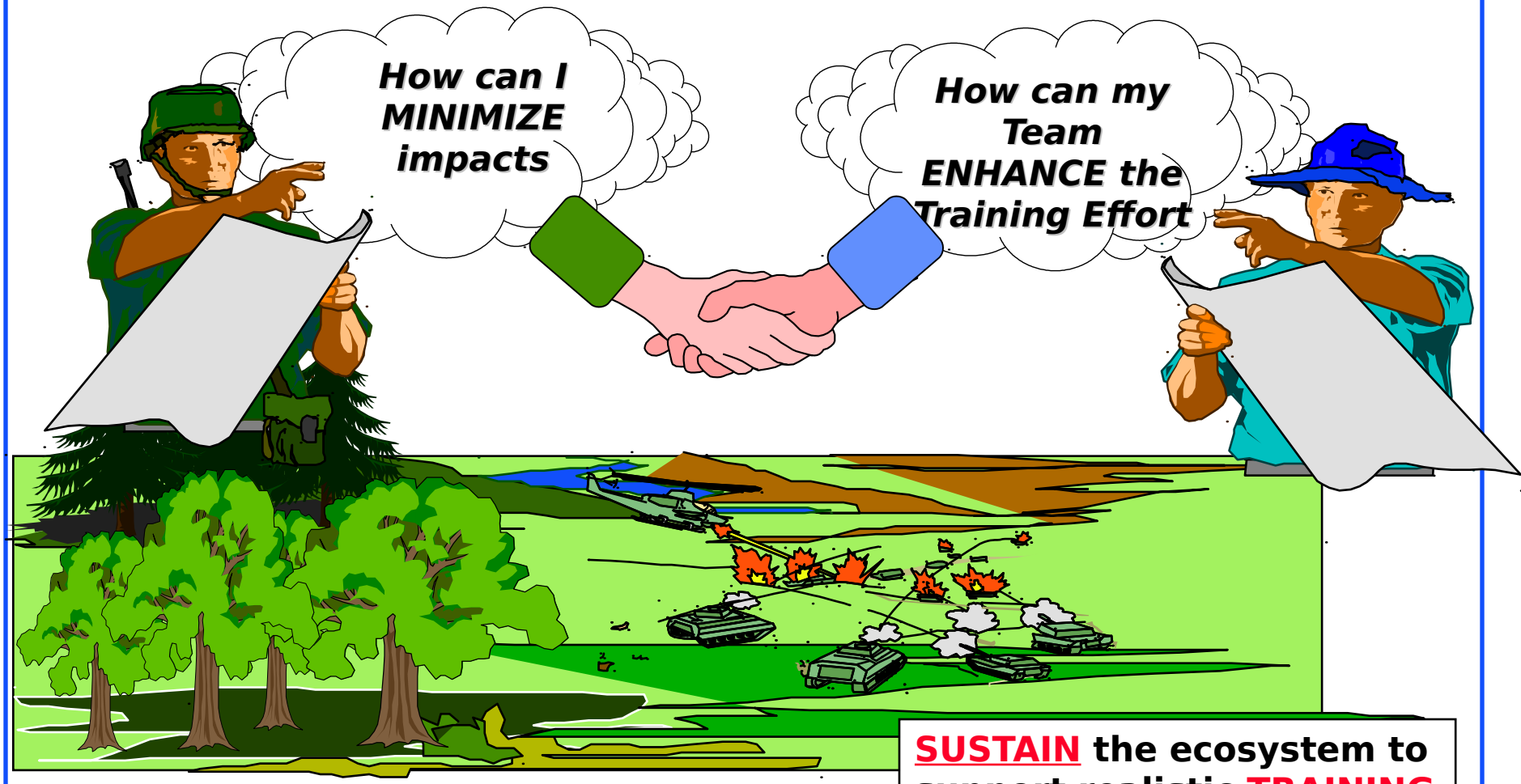
TEN YEAR RANGE DEVELOPMENT PLAN

IAW AR 210-21

APPROVED BY INSTALLATION PLANNING BOARD 25 AUGUST 2000

PREPARED AND MAINTAINED BY FORT STEWART ITAM PROGRAM

CHALLENGES
A DIFFERENT WAY OF THINKING……



SUSTAIN the ecosystem to support realistic **TRAINING**

Rock of the Marne

Conclusion

Process Management Improvement Model (PMIM) is an effective tool to ensure a complete integration of Training, Command Guidance, Environmental Programs and Awareness.

QUESTIONS?
TSC/EMIC/FSGA